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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/102,939	(06/23/1998	MARTIN BICHSEL	P/1336-101	2391	
2352	7590	03/11/2002				
OSTROLE	NK FAB	ER GERB & SOF	EXAMINER			
1180 AVEN NEW YORK		HE AMERICAS 0368403		OPSASNICK, MICHAEL N		
				ART UNIT	PAPER NUMBER	
				2654		
				DATE MAIL ED. 02/11/2007	2	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)						
0.571	09/102,939	Bichsel						
Office Action Summary	Examiner	Art Unit						
	Michael N. Opsasnic							
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sh	eet with the correspondence a	ddress					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	I. 1.136(a). In no event, however, it is a statutory minimum id will apply and will expire SIX (tube cause the application to become	may a reply be timely filed of thirty (30) days will be considered time b) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).	aly. communication.					
1) Responsive to communication(s) filed on 20	<u>December 2001</u> .							
2a) This action is FINAL . 2b) ⊠ 1	This action is non-final.							
3) Since this application is in condition for allow closed in accordance with the practice under	wance except for forma er <i>Ex parte Quayle</i> , 193	al matters, prosecution as to t 35 C.D. 11, 453 O.G. 213.	he merits is					
Disposition of Claims								
4) Claim(s) 1-59 is/are pending in the application	on.							
4a) Of the above claim(s) <u>23-26 and 56-59</u> is	/are withdrawn from co	onsideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-22,27-55</u> is/are rejected.								
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	l/or election requirement	nt.						
Application Papers								
9)☐ The specification is objected to by the Examin								
10) ☐ The drawing(s) filed on is/are: a) ☐ acc								
Applicant may not request that any objection to								
11) The proposed drawing correction filed on			ner.					
If approved, corrected drawings are required in		•						
12) The oath or declaration is objected to by the I	Examiner.							
Priority under 35 U.S.C. §§ 119 and 120	·	C C S 440(=) (d) on (f)						
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.	5.C. 9 1 19(a)-(a) or (i).						
a) All b) Some * c) None of:		لہ						
1. Certified copies of the priority docume								
2. Certified copies of the priority docume			al Stage					
 3. Copies of the certified copies of the praphication from the International I * See the attached detailed Office action for a limit 	Bureau (PCT Rule 17.2	2(a)).	ai Stage					
14) Acknowledgment is made of a claim for dome	stic priority under 35 U	.S.C. § 119(e) (to a provision	al application).					
a) ☐ The translation of the foreign language parts)☐ Acknowledgment is made of a claim for dome								
Attachment(s)	•							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s 	5) 🔲 No	erview Summary (PTO-413) Paper N tice of Informal Patent Application (P ner:						

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group #1 in Paper No. 10 is acknowledged. The traversal is on the ground(s) that Group II is now amended to depend from Group I, and because of this reason that the Restriction Requirement should be withdrawn. This is not found persuasive because claim 1 is a linking claim, linking Group I and Group II, wherein Group I pertains to audio signal bandwidth compression, classified in class 704, subclass 500, and is distinct from Group II, wherein Group II pertains to evaluating hearing samples using a correlation function, classified in class 704, subclass 216. Group I and Group II are distinct from each other because they have different modes of operation, and therefore deemed unrelated (MPEP 806.04, 808.01). Therefore the Restriction Requirement for Groups I and Groups II stands.

This Restriction Requirement is still deemed proper and is therefore made FINAL.

2. Claim 1 link(s) inventions of Group I and Group II. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 1. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s)

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are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

- 3. Claims 23-26 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

 Applicant timely traversed the restriction (election) requirement in Paper No. 11.
- 4. Newly submitted claims 56-59 are withdrawn from consideration because these claims depend from claim 26 which has been withdrawn from consideration.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

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- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-19, 27-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Kenyon et al (4450531).

As per claims 1,30, Kenyon et al (4450531) teaches a method for compression of an electric audio signal (abstract) wherein:

the amplitude of said audio signal [or of a derived digital or analog signal] is normalized to a predetermined range D (as normalized reference signal -- abstract, col. 4 lines 36-52);

said audio signal is mapped using a non-linear function onto a second determined range of values W in order to obtain an emphasis of sensitive value ranges (as referenced signal is zeroed and filled into a length R -- Fig. 1)

the result is stored in electronic memory form (as stored reference elements -- col. 4 lines 53-59).

As per claim 2, <u>Kenyon et al (4450531)</u> teaches a nonlinear function to emphasize a range of values (col. 5 lines 3063).

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As per claims 3,31, and 32 <u>Kenyon et al (4450531)</u> teaches binary 3- 16 bits (as Fourier transform -- col. 5 lines 55-60 -- it is notoriously well known to perform a fourier transform with a 2ⁿ number of bits for more efficient processing)

As per claims 4,33, and 34, <u>Kenyon et al (4450531)</u> teaches band pass filtering with band signal attenuation (fig. 1)

As per claims 5, 35-37, <u>Kenyon et al (4450531)</u> teaches banded signals ranging from 4-10 bands(Fig. 6)

As per claim 6, Kenyon et al (4450531) teaches a method for broadcast signals, which include audio (10 hz - 20khz), col. 1 lines 5-13)

As per claims 7,38, <u>Kenyon et al (4450531)</u> teaches band pass filtering, rectifying, and subtraction with Q matched filters(Fig. 5)

As per claims 8-17,39-53 <u>Kenyon et al (4450531)</u> teaches amplitude control, convolution calculations (and coefficients), division stages, and rms energy value calculations (col. 6 line 25 – col. 8 line 20).

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As per claims 18,19,27-29, Kenyon et al (4450531) teaches a data carrier as television broadcast (col. 1 lines 7-12), and processor performing memory calculations and decision logic (Fig. 2; esp. subblocks 64 and 66).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 20,21, and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kenyon et al (4450531) in view Uehara (5754798).

As per claims 20,21, and 54, Kenyon et al (4450531) does not explicitly teach a power save mode when processing is not needed, however, Uehara (5754798) teaches a power save mode in which SMRAM states are compared to determine a power save mode (col. 21, line 60 - col. 22 line 4). Therefore, it would have been obvious to one of ordinary skill in the art of

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portable transmission devices to modify the teachings of Kenyon et al (4450531) with a power saving mode because it would advantageously save the power supply energy and extend the operating time of the device (Uehara (5754798), Fig. 1b, col. 1 lines 10-14).

9. Claims 22 and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kenyon et al (4450531) in view Uehara (5754798).

As per claims 22 and 55, Kenyon et al (4450531) does not explicitly teach the exact structure/device to perform the calculations; however, Hoffberg et al (5901246) teaches a local processor located in a wristwatch (col. 80, lines 17-20), in which the device is used to broadcast information (col. 80, lines 17-20). Therefore, it would have been obvious to one of ordinary skill in the art of broadcasting signals to adapt the technique of Kenyon et al (4450531) into a wristwatch device because it would allow for the concealment of the device (col. 80 line 20).

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Conclusion

10. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872 9314,

(for informal or draft communications, please label "PROPOSED" or "DRAFT") Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (703)305-4089, who is available Tuesday-Thursday, 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Marsha Banks-Harold, can be reached at (703)305-4379. The facsimile phone number for this group is (703)872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 2600 receptionist whose telephone number is (703) 305-4750, the 2600 Customer Service telephone number is (703) 306-0377.

mno

2/16/02

MARSHA D. BANKS-HAROLD SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2600**

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